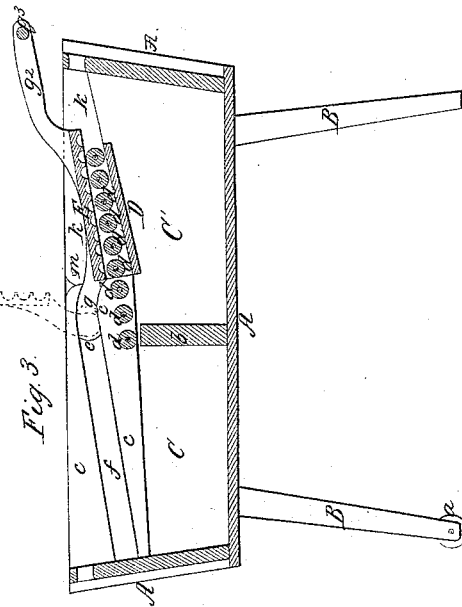
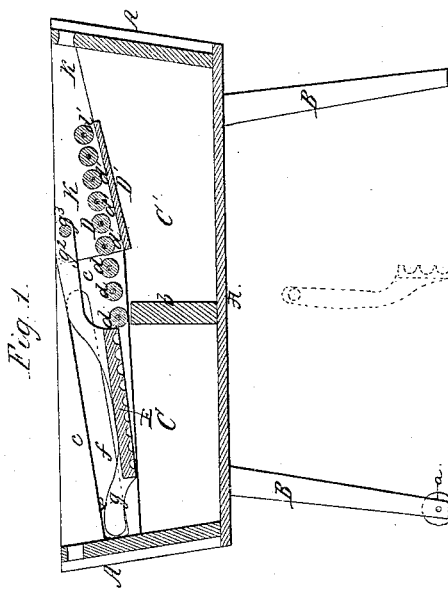
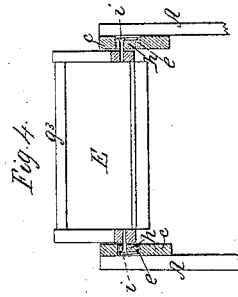
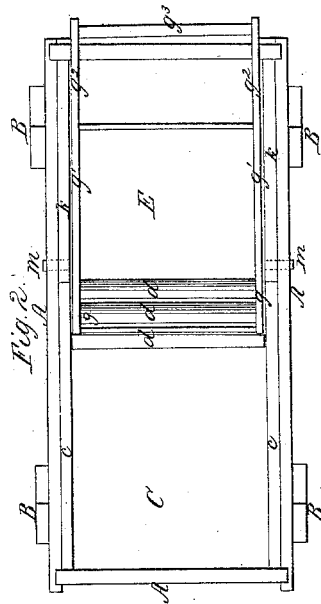


*J. B. Winchell,*

*Washing Machine,*

*N<sup>o</sup> 49672.*

*Patented Aug. 29, 1865.*



*Witnesses;*  
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# UNITED STATES PATENT OFFICE.

J. B. WINCHELL, OF CHICAGO, ILLINOIS.

## WASHING-MACHINE.

Specification forming part of Letters Patent No. 49,672, dated August 29, 1865.

*To all whom it may concern:*

Be it known that I, J. B. WINCHELL, of Chicago, Cook county, State of Illinois, have invented a new and Improved Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a longitudinal section taken in a vertical plane through the machine. Fig. 2 is a plan view of the machine. Fig. 3 is a sectional view similar to Fig. 1, but showing the rubbing-board over the wash-board and in a position to operate upon the articles. Fig. 4 is a cross-section, showing the mode of attaching the rubbing-board to the sides of the wash-box.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to that class of washing-machines which are constructed with a reciprocating rubbing-board that is moved over an inclined wash-board or bed of rolling-surfaces.

My invention consists in a reciprocating rubbing-board which is pivoted by an elastic yielding connection to sliding blocks or bearings that move in slotted guides, in conjunction with an inclined wash-board of rolling-surfaces and a wash-box having two distinct apartments, as will be hereinafter described.

The invention consists in providing a wash-box having two apartments with a hinged wash-board and a reciprocating rubbing-board, as will be hereinafter described.

The invention also consists in providing a hinged wash-board having perforations through it with an inclined bottom, said parts being arranged in a wash-box having two independent apartments, as will be hereinafter described.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawings, A represents an oblong wash-box, which is mounted upon legs B B, two of which have wheels *a a* applied to them, for the purpose of enabling a person to move the machine conveniently by elevating the opposite end to the box to which said rollers are applied.

The box A is divided centrally into two apart-

ments, C C', by means of a transverse partition, *b*, which extends up from the bottom of the wash-box a suitable distance to admit of the arrangement of a portion of the wash-board over it, as shown in Figs. 1 and 3.

Two slotted strips, *c c*, are secured to the sides of the wash-box, over the apartment C, and serve as bearings for the three lowermost rollers, *d d d*, of the wash-board D, and also as guides for the sliding bearing-blocks *e e* of the rubbing-board E. These blocks *e e* are oblong, and slide in inclined slots *f f* in the strips *c c*, and are attached to the sides of arms *g g* of the rubbing-board E by means of pivots *i i*. (Shown in Fig. 4.) These pivots *i i* pass through slots in the sliding blocks *e e*, in which slots india-rubber or metal springs *h h* are confined for the purpose of holding the forward end of the rubbing-board down to its work by an elastic yielding pressure.

The rubbing-board E has a corrugated or roughened surface, as shown in Figs. 1 and 3, and this board is secured between two side strips, *g' g'*, of which the arms *g g* and the arms *g' g'* form a part. The bottom edges of said side strips are in a plane with the lower edges of the corrugations, so as to protect these edges from undue wear in moving the rubbing-board over the wash-board.

The arms *g' g'* of the rubbing-board are curved upward, and are connected together at their rear ends by means of a transverse bar, *g<sup>2</sup>*, which is grasped by the hands to give the rubbing-board a reciprocating motion.

The rollers *d d d d'*, which constitute the wash-board, are arranged transversely across the wash-box, over the apartment C', and they are also arranged in an inclined plane inclining toward the partition *b*, as represented in Figs. 1 and 3, said plane being parallel, or nearly so, to the plane of the slots *f f* in the strips *c c*.

The three rollers *d d d* have fixed bearings; but the rollers *d' d'* are applied to side strips, *k k*, which are pivoted at *m m* to the sides of the box A, their rear ends extending back and abutting against the rear end of said box, as shown in Figs. 1, 2, and 3.

Beneath the rollers *d' d'* of the wash-board D is an inclined board, D', the object of which is to conduct the dirty water which is squeezed

from the articles upon the wash-board toward the partition *b*, and prevent this water from falling upon clean articles which may be in the apartment C'.

It will be seen that the wash-board D nearly covers the apartment C', and that by hinging a portion of this board so that it can be thrown up the part C' can be conveniently got at for introducing or removing articles from it.

The articles to be washed are soaked in the apartment C' and removed therefrom one at a time and placed upon the wash-bed D. Here the article is subjected to a rubbing and squeezing action by moving the rubbing-board over it back and forward and applying all the required pressure. When the articles are thus cleaned they are placed into the rinsing-apartment C.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a reciprocating rubbing-board, E, and wash-board D with a wash-

box which has two apartments, C C', separated by a division-board, *b*, substantially as described.

2. The arrangement of the hinged wash-board D over the apartment C', in combination with the apartment C, substantially as described.

3. The combination of a hinged wash-board, D, and reciprocating rubbing-board E with the two apartments C C', substantially as described.

4. The construction of oblong bearing-blocks *ee* with rubber or metallic springs *h h* and movable pivot-connections *i i* for the arms of the rubbing-board E, substantially as described.

5. The inclined board D', in combination with the hinged wash-board D, substantially as described.

J. B. WINCHELL.

Witnesses:

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